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PRIORITY

TOP SECRET

OUT55676

P 080319Z
FM NPIC

multi

1965 MAY 8 04 03Z

25X1

AFSSO USAFE
AFSSO PACAF

25X1

CNO

25X1

OPCEN

10 MAY 1965

25X1

YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM
T O P S E C R E T CITE NPIC 4475.

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	NSA LO	
	DIAAP	
	Destroyed	

25X1

SUBJECT: CAMERA INFORMATION FOR MISSION 1019-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL LENGHT (MM)	609.574	609.117	FWD 54.92 AFT 54.70	FWD 54.58 AFT 54.94	(1)83.9456 (2)83.8660	(1)38.4225 (2)38.1358
FILTER (WRATTEN NO.)	25	21	25	25	NONE	21
APERTURE	F3.5	F3.5	F8.0	F6.8	F1.8	F4.5
SLIT WIDTH (IN.)/EXPOSURE (SEC.)	0.250	0.175	1/100	1/100	2.0	1/500

1

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TOP SECRET

GROUP 1
Excluded from automatic downgrading and declassification

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FILM	4404	4404	4404	4404	4401	4400
RESOLUTION						
(L/MM)	174	172	FWD 116	FWD 121	(1)	74
			AFT 80	AFT 81	(2)	73.5

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.005	.003	.002	.000	.002	.003	.006
AFT UNIT	.009	.003	.001	.000	.000	.003	.005

B. HORIZON CAMERAS (MM)

	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES MINUS	.014	.009	.001	.001
20 DEGREES	.004	.007	.009	.005
(TANGENTIAL) MAX VECTOR	.004	.008	.006	.008

4. CAMERA ANGLES

	DEGREES	MINUTES
A. ANGLE BETWEEN MAIN CAMERAS	29	51.79
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS		
PART (1)	89	55
PART (2)	89	58
C. DEPRESSION ANGLE BETWEEN HORIZON AND MAIN CAMERAS FWD STARBOARD	14	49
FWD PORT	14	54
AFT STARBOARD	15	23

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AFT PORT 14 44

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
8	.3230	.0292	3	.1258	.0114	1D1 THRU 79D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZEBRA TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION	
	DAY	HOUR	MIN	SEC	SEC	SEC	
1D1	29	23	14	07	1361	39	
2D1	30	00	42	34	1194	71	
3D1	30	02	13	53	1212	129	FWD
	30	02	15	50	1329	13	AFT
3D2	30	02	16	39	1378	54	
4D1	30	03	45	07	1225	130	FWD
	30	03	47	03	1341	14	AFT
4D2	30	03	50	12	1530	47	
5D1	30	05	12	12	1080	186	FWD
	30	05	18	06	1434	119	FWD
	30	05	23	01	1729	43	FWD
	30	05	12	12	1080	692	AFT

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5D2	30	05	31	53	2261	46
5D3	30	05	33	15	2343	38
6D1	30	06	45	01	1189	270 FWD
	30	06	45	01	1189	9 AFT
	30	06	49	17	1445	14 AFT
6D2	30	06	50	28	1517	55
6D3	30	06	53	24	1693	54
6D4	30	06	56	41	1890	111
7D1	30	08	21	04	1483	39
7D2	30	08	22	19	1559	46
7D3	30	08	24	30	1690	33 FWD
	30	08	24	30	1690	106 AFT
7D4	30	08	29	44	2004	97
8AE	30	09	30	55	213	46
8D1	30	09	48	47	1284	206
9D1	30	11	21	53	1407	54
9D2	30	11	23	36	1511	77
12D1	30	15	49	55	1104	58
13D1	30	17	48	26	2753	114
16D1	30	22	05	24	1785	36
19D1	01	02	30	14	1289	71
19D2	01	02	33	01	1455	100
21D1	01	05	30	07	1152	57
21D2	01	05	37	16	1582	142

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21D3	01	05	42	38	1904	127
22D1	01	07	07	07	1511	69
22D2	01	07	15	24	2008	128
22D3	01	07	19	45	2269	69
23D1	01	08	32	00	1142	58
23D2	01	08	40	26	1649	200
23D3	01	08	47	42	2054	98
24AE	01	09	48	31	270	46
24D1	01	10	08	50	1489	319
24D2	01	10	18	20	2059	97
25D1	01	11	39	38	1476	297
27D1	01	14	38	45	1300	71
28D1	01	16	12	20	1456	56
30D1	01	19	19	35	1773	113
31D1	01	20	52	35	1892	71
34D1	02	01	16	41	1356	49
38D1	02	07	24	28	1572	63
38D2	02	07	28	10	1794	55
40D1	02	10	23	14	1376	71
40D2	02	10	26	00	1542	195
41D1	02	11	57	49	1598	69
41D2	02	11	59	34	1694	53
47D1	02	21	08	42	1888	48
54D1	03	07	41	32	1633	144
55D1	03	09	08	05	1366	47

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55D2	03	09	18	56	2018	98
55AE	03	10	07	08	0	31
56AE1	03	10	22	44	386	46
56AE2	03	11	38	08	0	32
57D1	03	12	15	08	1672	99
59D1	03	15	10	17	1263	58
62D1	03	19	55	46	2020	46
63D1	03	21	25	49	1964	48
66D1	04	01	51	30	1525	99
68D1	04	04	51	16	1393	102 FWD
	04	04	51	16	1393	238 AFT
70D1	04	07	58	15	1694	43
70D2	04	07	59	32	1772	116
71AE	04	09	08	19	440	45
71D1	04	09	36	45	2146	126
72D1	04	10	59	01	1624	217
72D2	04	11	09	00	2223	156
73D1	04	12	48	05	2706	99
74D1	04	14	10	27	2191	141
76D1	04	16	59	33	1426	29
76D2	04	17	23	15	2849	70
78D1	04	20	14	04	2181	113
79D1	04	21	42	48	2049	36

NOTE: DATA IS THE SAME FOR BOTH UNITS EXCEPT WHERE DESIGNATED BY THE INDIVIDUAL UNIT.

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8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	27453.4939	78731.5[illegible]	
8	69448.1899	34318.2726	[illegible]
16	114708.5139	79578.5861	.010
24	156894.6029	35372.6648	.010
31	196763.9399	75241.9915	.010
40	244330.9499	36408.9836	.013
47	284101.4439	76179.4712	.011
56	331747.3289	37425.3340	.014
63	371592.8479	77270.8485	.012
71	413681.9399	32959.9269	.014
79	458947.5429	78225.5145	.015

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D 39/39/35

PART 2 D 19/18/19

T O P S E C R E

/END OF MESSAGE/

(ABOVE MESSAGE ALSO PASSED [ ]

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